Kevin C. McCarthy, Eugenie V. Uhlmann and

Niall R. Lynam

For

COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page

:

The listing of the claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Please cancel claims 1-61.

Please add new claims 62-196 as follows:

1. - 61. (Cancelled)

62. (New) A navigation system suitable for use in a vehicle comprising:

a vehicle;

said vehicle including an interior rearview mirror assembly, said interior rearview mirror assembly comprising an interior reflective element, said interior rearview mirror assembly further comprising a display;

a database at a site remote from said vehicle, said database including at least one chosen from map data and directory data;

a global-positioning system receiver, said global-positioning system receiver locatable in said vehicle during a road journey, said global-positioning system receiver operable to receive signals from satellites external to said vehicle;

a transceiver operable to engage in a wireless communication with a remote transceiver located at a site remote from said vehicle, said transceiver locatable in said vehicle during said road journey;

said transceiver operable to receive a wireless data transmission from said remote transceiver of data derived from said database;

a user input whereby a user can input a destination, said system responsive to said input of said destination by wirelessly communicating said destination to said remote transceiver;

Kevin C. McCarthy, Eugenie V. Uhlmann and

Niall R. Lynam

For

COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page

:

said wireless data transmission from said remote transceiver to said transceiver comprising downloading of directions generally to said destination, said directions being derived from said database;

said display at said interior mirror displaying turn-by-turn instructions to said destination during said road journey, said turn-by-turn instructions being based on said downloaded directions and on said signals received by said global-positioning system receiver;

wherein said turn-by-turn instructions comprise at least one chosen from (i) direction, (ii) when to turn, and (iii) how far until the turn; and

wherein said navigation system includes a short-range wireless communication link.

- 63. (New) The system in claim 62 wherein said user input comprises at least one chosen from a voice input and a keypad input.
- 64. (New) The system in claim 62 including an alert to the driver, said alert comprising at least one chosen from an audible alert and a visible alert.
- 65. (New) The system in claim 62 wherein said display comprises a dot-matrix pixelated display, said dot-matrix pixelated display operable to display a textural driver instruction.
- 66. (New) The system in claim 65 wherein said display is selected from the group consisting of a vacuum fluorescent display, an organic electro-luminescent display, a field-emission display, a plasma display, a light-emitting diode display, and a liquid crystal display.
- 67. (New) The system in claim 62 wherein said display is positioned at said interior reflective element.

Kevin C. McCarthy, Eugenie V. Uhlmann and

Niall R. Lynam

For

COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page

:

68. (New) The system in claim 62 wherein said interior rearview mirror assembly comprises a housing and wherein said display is positioned at said housing.

69. (New) The system in claim 62 wherein said vehicle further includes at least one exterior rearview mirror assembly.

70. (New) The system in claim 69 wherein said global-positioning system receiver comprises an antenna.

71. (New) The system in claim 70 wherein said antenna is positioned at one of said interior mirror assembly and said exterior mirror assembly.

72. (New) The system in claim 71 wherein said antenna is positioned at said interior mirror assembly.

73. (New) The system in claim 63 wherein said receiver is positioned at said interior mirror assembly.

74. (New) The system in claim 71 wherein said antenna is positioned at said exterior rearview mirror assembly.

75. (New) The system in claim 63 wherein said navigation system includes a vehicle data bus connection.

76. (New) The system in claim 63 wherein said short-range wireless communication link comprises a short-range radio frequency wireless communication link.

Kevin C. McCarthy, Eugenie V. Uhlmann and

Niall R. Lynam

For

COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page

9

77. (New) The system in claim 76 wherein said short-range radio frequency wireless communication link comprises a BLUETOOTH protocol.

78. (New) The system in claim 62 wherein said display displays at least one chosen from compass and directional heading information.

79. (New) The system in claim 62 further including an audio output generator indicating a need to change direction.

80. (New) The system in claim 62 wherein said display comprises a reconfigurable display.

81. (New) The system in claim 80 wherein said display also displays other vehicle functions.

82. (New) The system in claim 62 wherein said user input comprises voice input.

83. (New) The system in claim 82 wherein said vehicle includes a system for receiving voice commands from the driver.

84. (New) The system in claim 64 wherein said alert comprises an audible alert.

85. (New) The system in claim 64 wherein said alert comprises a visible alert.

86. (New) The system in claim 85 wherein said visible alert comprises a flashing display.

87. (New) The system in claim 64 wherein said alert comprises an alert that a turn is being approached.

Niall R. Lynam

For : COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page : 10

88. (New) The system in claim 64 wherein said alert comprises an alert that a turn has been missed.

89. (New) The system in claim 62 wherein said user input comprises a keypad.

90. (New) The system in claim 89 wherein said keypad is connected with said interior mirror assembly.

91. (New) The system in claim 90 wherein said keypad is wirelessly connected with said interior mirror assembly.

92. (New) The system in claim 62 wherein said reflective element comprises an electro-optic reflective element.

93. (New) The system in claim 92 wherein said electro-optic reflective element comprises an electrochromic reflective element.

94. (New) The system in claim 62 wherein said short-range wireless communication link comprises a short-range radio frequency wireless communication link.

95. (New) The system in claim 94 wherein said short-range radio frequency wireless communication link comprises a BLUETOOTH protocol.

96. (New) The system in claim 62 including an image capture device, said image capture device viewing a scene exterior of the vehicle, wherein said display displays the exterior scene captured with said image capture device, said display displaying a graphic overlay that guides the driver with turn-by-turn instructions.

Niall R. Lynam

For : COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page : 11

97. (New) A navigation system suitable for use in a vehicle comprising:

a vehicle;

said vehicle including an interior rearview mirror assembly, said interior rearview mirror assembly comprising an interior reflective element;

an image capture device, said image capture device viewing a scene exterior of the vehicle;

a database at a site remote from said vehicle, said database including at least one chosen from map data and directory data;

a global-positioning system receiver, said global-positioning system receiver locatable in said vehicle during a road journey, said global-positioning system receiver operable to receive signals from satellites external to said vehicle;

a transceiver operable to engage in a wireless communication with a remote transceiver located at a site remote from said vehicle, said transceiver locatable in said vehicle during said road journey;

said transceiver operable to receive a wireless data transmission from said remote transceiver of data derived from said database;

a user input whereby a user can input a destination, said system responsive to said input of said destination by wirelessly communicating said destination to said remote transceiver;

said wireless data transmission from said remote transceiver to said transceiver comprising downloading of directions generally to said destination, said directions being derived from said database;

a display displaying the exterior scene captured with said image capture device, said display displaying a graphic overlay that guides the driver with turn-by-turn instructions, said turn-by-turn instructions being based on said downloaded directions and on said signals received by said global-positioning system receiver.

Niall R. Lynam

For : COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page : 12

98. (New) The system in claim 97 wherein said display is at or adjacent to said interior rearview mirror assembly.

99. (New) The system in claim 97 wherein said user input comprises at least one chosen from a voice input and a keypad input.

100. (New) The system in claim 97 including an alert to the driver, said alert comprising at least one chosen from an audible alert and a visible alert.

101. (New) The system in claim 97 wherein said display comprises a dot-matrix pixelated display, said dot-matrix pixelated display operable to display a textural driver instruction.

102. (New) The system in claim 101 wherein said display is selected from the group consisting of a vacuum fluorescent display, an organic electro-luminescent display, a field-emission display, a plasma display, a light-emitting diode display, and a liquid crystal display.

103. (New) The system in claim 97 wherein said display is positioned at said interior reflective element.

104. (New) The system in claim 97 wherein said interior rearview mirror assembly comprises a housing and wherein said display is positioned at said housing.

105. (New) The system in claim 97 wherein said vehicle further includes at least one exterior rearview mirror assembly.

106. (New) The system in claim 105 wherein said global-positioning system receiver comprises an antenna.

Kevin C. McCarthy, Eugenie V. Uhlmann and

Niall R. Lynam

For

COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page

:

13

:

107. (New) The system in claim 106 wherein said antenna is positioned at one of said interior mirror assembly and said exterior mirror assembly.

108. (New) The system in claim 107 wherein said antenna is positioned at said interior mirror assembly.

109. (New) The system in claim 107 wherein said receiver is positioned at said interior mirror assembly.

110. (New) The system in claim 107 wherein said antenna is positioned at said exterior rearview mirror assembly.

111. (New) The system in claim 97 wherein said navigation system includes a vehicle data bus connection.

112. (New) The system in claim 98 wherein said short-range wireless communication link comprises a short-range radio frequency wireless communication link.

113. (New) The system in claim 112 wherein said short-range radio frequency wireless communication link comprises a BLUETOOTH protocol.

114. (New) The system in claim 97 wherein said display displays at least one chosen from compass and directional heading information.

115. (New) The system in claim 97 further including an audio output generator indicating a need to change direction.

116. (New) The system in claim 97 wherein said display comprises a reconfigurable display.

Kevin C. McCarthy, Eugenie V. Uhlmann and

Niall R. Lynam

For

COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

14

Preliminary Amendment

Page

:

:

117. (New) The system in claim 116 wherein said display also displays other vehicle functions.

118. (New) The system in claim 97 wherein said user input comprises voice input.

119. (New) The system in claim 118 wherein said vehicle includes a system for receiving voice commands from the driver.

120. (New) The system in claim 100 wherein said alert comprises an audible alert.

121. (New) The system in claim 100 wherein said alert comprises a visible alert.

122. (New) The system in claim 121 wherein said visible alert comprises a flashing display.

123. (New) The system in claim 100 wherein said alert comprises an alert that a turn is being approached.

124. (New) The system in claim 100 wherein said alert comprises an alert that a turn has been missed.

125. (New) The system in claim 97 wherein said user input comprises a keypad.

126. (New) The system in claim 125 wherein said keypad is connected with said interior mirror assembly.

127. (New) The system in claim 125 wherein said keypad is wirelessly connected with said interior mirror assembly.

Kevin C. McCarthy, Eugenie V. Uhlmann and

Niall R. Lynam

For

COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

15

Preliminary Amendment

Page

:

:

128. (New) The system in claim 97 wherein said reflective element comprises an electrooptic reflective element.

129. (New) The system in claim 128 wherein said electro-optic reflective element comprises an electrochromic reflective element.

130. (New) The system in claim 97 wherein said short-range wireless communication link comprises a short-range radio frequency wireless communication link.

131. (New) The system in claim 130 wherein said short-range radio frequency wireless communication link comprises a BLUETOOTH protocol.

132. (New) A navigation system suitable for use in a vehicle comprising:

a vehicle;

said vehicle including an interior rearview mirror assembly, said interior rearview mirror assembly comprising an interior reflective element, said interior rearview mirror assembly further comprising a display;

a database at a site remote from said vehicle, said database including at least one chosen from map data and directory data;

a global-positioning system receiver, said global-positioning system receiver locatable in said vehicle during a road journey, said global-positioning system receiver operable to receive signals from satellites external to said vehicle;

a transceiver operable to engage in a wireless communication with a remote transceiver located at a site remote from said vehicle to a transceiver, said transceiver locatable in said vehicle during said road journey;

said transceiver operable to receive a wireless data transmission from said remote transceiver of data derived from said database;

Niall R. Lynam

For : COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page : 16

a user input whereby a user can input a destination, said system responsive to said input of said destination by wirelessly communicating said destination to said remote transceiver;

said wireless data transmission from said remote transceiver to said transceiver comprising downloading of directions generally to said destination, said directions being derived from said database;

said display at said interior mirror displaying turn-by-turn instructions to said destination during said road journey, said turn-by-turn instructions being based on said downloaded directions and on said signals received by said global-positioning system receiver;

wherein said navigation system includes a short-range wireless radio frequency communication link; and

wherein said user input comprises at least one chosen from a voice input and a keypad input.

133. (New) The system in claim 132 wherein said display is at or adjacent to said interior rearview mirror assembly.

134. (New) The system in claim 133 wherein said display is mounted to one chosen from said interior rearview mirror assembly support and a mirror mount.

135. (New) The system in claim 133 wherein said display is mounted either above or below said reflective element.

136. (New) The system in claim 132 including an alert to the driver, said alert comprising at least one chosen from an audible alert and a visible alert.

Niall R. Lynam

For : COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page : 17

137. (New) The system in claim 132 wherein said display comprises a dot-matrix pixelated display, said dot-matrix pixelated display operable to display a textural driver instruction.

138. (New) The system in claim 137 wherein said display is selected from the group consisting of a vacuum fluorescent display, an organic electro-luminescent display, a field-emission display, a plasma display, a light-emitting diode display, and a liquid crystal display.

139. (New) The system in claim 132 wherein said interior rearview mirror assembly comprises a housing and wherein said display is positioned at said housing.

140. (New) The system in claim 132 wherein said vehicle further includes at least one exterior rearview mirror assembly.

141. (New) The system in claim 140 wherein said global-positioning system receiver comprises an antenna.

142. (New) The system in claim 141 wherein said antenna is positioned at one of said interior mirror assembly and said exterior mirror assembly.

143. (New) The system in claim 142 wherein said antenna is positioned at said interior mirror assembly.

144. (New) The system in claim 132 wherein said receiver is positioned at said interior mirror assembly.

145. (New) The system in claim 142 wherein said antenna is positioned at said exterior rearview mirror assembly.

Niall R. Lynam

For : COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page : 18

146. (New) The system in claim 132 wherein said navigation system includes a vehicle data bus connection.

147. (New) The system in claim 132 wherein said short-range radio frequency wireless communication link comprises a BLUETOOTH protocol.

148. (New) The system in claim 132 wherein said display displays at least one chosen from compass and directional heading information.

149. (New) The system in claim 132 further including an audio output generator indicating a need to change direction.

150. (New) The system in claim 132 wherein said display comprises a reconfigurable display.

151. (New) The system in claim 150 wherein said display also displays other vehicle functions.

152. (New) The system in claim 132 wherein said user input comprises voice input.

153. (New) The system in claim 152 wherein said vehicle includes a system for receiving voice commands from the driver.

154. (New) The system in claim 136 wherein said alert comprises an audible alert.

155. (New) The system in claim 136 wherein said alert comprises a visible alert.

156. (New) The system in claim 155 wherein said visible alert comprises a flashing display.

Kevin C. McCarthy, Eugenie V. Uhlmann and

Niall R. Lynam

For

COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page

19

:

157. (New) The system in claim 136 wherein said alert comprises an alert that a turn is being approached.

158. (New) The system in claim 136 wherein said alert comprises an alert that a turn has been missed.

159. (New) The system in claim 132 wherein said user input comprises a keypad.

160. (New) The system in claim 159 wherein said keypad is connected with said interior mirror assembly.

161. (New) The system in claim 159 wherein said keypad is wirelessly connected with said interior mirror assembly.

162. (New) The system in claim 132 wherein said reflective element comprises an electrooptic reflective element.

163. (New) The system in claim 162 wherein said electro-optic reflective element comprises an electrochromic reflective element.

164. (New) The system in claim 132 wherein said turn-by-turn instructions comprise at least one chosen from (i) direction, (ii) when to turn, and (iii) how far until the turn.

165. (New) A navigation system suitable for use in a vehicle comprising: a vehicle;

said vehicle including an interior rearview mirror assembly, said interior rearview mirror assembly comprising an interior reflective element;

Applicants: Kevin C. McC

:

Kevin C. McCarthy, Eugenie V. Uhlmann and

Niall R. Lynam

For

COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page

: 20

a database at a site remote from said vehicle, said database including at least one chosen from map data and directory data;

a global-positioning system receiver, said global-positioning system receiver locatable in said vehicle during a road journey, said global-positioning system receiver operable to receive signals from satellites external to said vehicle;

a transceiver operable to engage in a wireless communication with a remote transceiver located at a site remote from said vehicle to a transceiver, said transceiver locatable in said vehicle during said road journey;

said transceiver operable to receive a wireless data transmission from said remote transceiver of data derived from said database;

a user input whereby a user can input a destination, said system responsive to said input of said destination by wirelessly communicating said destination to said remote transceiver;

said wireless data transmission from said remote transceiver to said transceiver comprising downloading of directions generally to said destination, said directions being derived from said database;

a display displaying turn-by-turn instructions to said destination during said road journey, said turn-by-turn instructions being based on said downloaded directions and on said signals received by said global-positioning system receiver;

wherein said navigation system includes a short-range wireless radio frequency communication link;

wherein said user input comprises at least one chosen from a voice input and a keypad input; and

wherein said reflective element comprises an electro-optic reflective element.

166. (New) The system in claim 165 wherein said display is at or adjacent to said interior rearview mirror assembly.

Niall R. Lynam

For : COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page : 21

167. (New) The system in claim 166 wherein said display is mounted to one chosen from said interior rearview mirror assembly support and a mirror mount.

168. (New) The system in claim 166 wherein said display is mounted either above or below said reflective element.

169. (New) The system in claim 165 including an alert to the driver, said alert comprising at least one chosen from an audible alert and a visible alert.

170. (New) The system in claim 165 wherein said display comprises a dot-matrix pixelated display, said dot-matrix pixelated display operable to display a textural driver instruction.

171. (New) The system in claim 170 wherein said display is selected from the group consisting of a vacuum fluorescent display, an organic electro-luminescent display, a field-emission display, a plasma display, a light-emitting diode display, and a liquid crystal display.

172. (New) The system in claim 165 wherein said interior rearview mirror assembly comprises a housing and wherein said display is positioned at said housing.

173. (New) The system in claim 165 wherein said vehicle further includes at least one exterior rearview mirror assembly.

174. (New) The system in claim 173 wherein said global-positioning system receiver comprises an antenna.

175. (New) The system in claim 174 wherein said antenna is positioned at one of said interior mirror assembly and said exterior mirror assembly.

Niall R. Lynam

For : COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page : 22

176. (New) The system in claim 175 wherein said antenna is positioned at said interior mirror assembly.

177. (New) The system in claim 165 wherein said receiver is positioned at said interior mirror assembly.

178. (New) The system in claim 175 wherein said antenna is positioned at said exterior rearview mirror assembly.

179. (New) The system in claim 165 wherein said navigation system includes a vehicle data bus connection.

180. (New) The system in claim 165 wherein said short-range radio frequency wireless communication link comprises a BLUETOOTH protocol.

181. (New) The system in claim 165 wherein said display displays at least one chosen from compass and directional heading information.

182. (New) The system in claim 165 further including an audio output generator indicating a need to change direction.

183. (New) The system in claim 165 wherein said display comprises a reconfigurable display.

184. (New) The system in claim 183 wherein said display also displays other vehicle functions.

185. (New) The system in claim 165 wherein said user input comprises voice input.

Kevin C. McCarthy, Eugenie V. Uhlmann and

Niall R. Lynam

For

COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page

: 23

:

186. (New) The system in claim 185 wherein said vehicle includes a system for receiving voice commands from the driver.

187. (New) The system in claim 169 wherein said alert comprises an audible alert.

188. (New) The system in claim 169 wherein said alert comprises a visible alert.

189. (New) The system in claim 188 wherein said visible alert comprises a flashing display.

190. (New) The system in claim 169 wherein said alert comprises an alert that a turn is being approached.

191. (New) The system in claim 169 wherein said alert comprises an alert that a turn has been missed.

192. (New) The system in claim 165 wherein said user input comprises a keypad.

193. (New) The system in claim 192 wherein said keypad is connected with said interior mirror assembly.

194. (New) The system in claim 192 wherein said keypad is wirelessly connected with said interior mirror assembly.

195. (New) The system in claim 165 wherein said electro-optic reflective element comprises an electrochromic reflective element.

Kevin C. McCarthy, Eugenie V. Uhlmann and

Niall R. Lynam

For

COMPLETE MIRROR-BASED GLOBAL-

POSITIONING SYSTEM (GPS) NAVIGATION

SOLUTION

Preliminary Amendment

Page

24

:

196. (New) The system in claim 165 wherein said turn-by-turn instructions comprise at least one chosen from (i) direction, (ii) when to turn, and (iii) how far until the turn.